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Notice of Allowability

Application No.

09/461,160

Examiner

Lilian Vo

Applicant(s)

THORNLEY ET AL.

Art Unit

2127

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/20/04.
2. ☒ The allowed claim(s) is/are 49, 51, 55 and 57 - 59 now renumbered as 1 - 6.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 6282004
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Lilian Vo
Examiner
Art Unit: 2127

EXAMINER'S AMENDMENT

1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance.
2. During a telephone conversation conducted on 6/28/04, Scott Harris requested an extension of time for 2 MONTH(S) and authorized the Director to charge Deposit Account No. 06-1050 the required fee of \$420 for this extension and authorized the following examiner's amendment.
3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
4. Authorization for this examiner's amendment was given in a telephone interview with Scott Harris, on June 28, 2004.
5. The application has been amended as follows:

07/13/2004 SBLIZZAR 00000001 061050 09461160
In the claims:
01 FC:1252 420.00 DA

i) Deleted claims 1 – 46 and 60 – 84.

ii) Claim 51:

Line 1, insert before "method", -- computerized --;

iii) Replace claims 49, 55, 57 and 58:

Claim 49. (Currently amended) A computerized method of operating a programming language, comprising:

defining equivalence annotations within the programming language which indicate to a program development system of the programming language information about sequential execution of statements written within the programming language, wherein said statements must be executed in a multithreaded manner associated with said annotations; and

developing the programming language as a sequential execution or as a substantially simultaneous execution based on contents of the equivalence annotations.

Claim 55. (Currently Amended) A computerized method of operating a program language, comprising:

defining equivalence annotations within a programming language which indicate to a program development system of the programming language information about sequential execution of statements written within the programming language, wherein the equivalence annotations

indicate that the statements are multithreadable and associated with said annotations; and

developing programs as a sequential execution or as a substantially simultaneous execution, based on contents of the equivalence annotations; and

synchronizing access of threads to shared memory using a specially defined synchronization;

synchronization counter;

wherein said synchronization counter is monotonically increasing, cannot be decreased, and prevents thread operation during its check operation.

Claim 57. (Currently Amended) A computerized method of operating a program language, comprising:

defining equivalence annotations within a programming language which indicate to a program development system of the programming language information about sequential execution of statements written within the programming language, wherein the equivalence annotations indicate that the statements are multithreadable and associated with said annotations;

developing programs as a sequential execution or as a substantially simultaneous execution, based on contents of the equivalence annotations;
and

synchronizing access of threads to shared memory using a specially defined synchronization;

wherein said synchronization flag is monotonically increasing, cannot be decreased, and prevents thread operation during its check operation.

Claim 58. (Currently Amended) A computerized method of operating a program language, comprising:

defining equivalence annotations wherein the equivalence annotations indicate that statements are multithreadable and associated with said annotations within a programming language which indicate to a program development system of the programming language information about sequential execution of said statements written within the programming language;

developing programs as a sequential execution or as a substantially simultaneous execution based on contents of the equivalence annotations;
and

synchronizing access of threads to shared memory using a specially defined synchronization;

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wherein said synchronization counter includes a check operation which suspends a calling thread.


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 703-305-7864. The examiner can normally be reached on Monday - Thursday, 7:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lilian Vo
Examiner
Art Unit 2127

lv
6/28/04


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